## CONTENTS

volume 31,	Number I, 1975
V. I. Belyaev · A. I. Lenin · T. S. Petipa Mathematical Model of a Pelagic Ecosystem 1	L. Opresko · R. Thomas Observations on <i>Octopus joubini</i> : Some Aspects
C. M. Brown · D. S. Macdonald-Brown · S. O. Stanley	of Reproductive Biology and Growth 51
Inorganic Nitrogen Metabolism in Marine Bacteria: Nitrate Uptake and Reduction in a Marine	Shell Parameters in Relation to Zonation in
Pseudomonad 7	Mediterranean Limpets 63
J. R. Sargent · R. F. Lee Biosynthesis of Lipids in Zooplankton from Saanich Inlet, British Columbia, Canada	J. H. Vandermeulen     Studies on Reef Corals. III. Fine Structural     Changes of Calicoblast Cells in <i>Pocillopora</i>
S. Kasahara · S. Uye · T. Onbé	damicornis during Settling and Calcification 69
Calanoid Copepod Eggs in Sea-Bottom Muds.  II. Seasonal Cycles of Abundance in the Populations of Several Species of Copepods and	R. G. Withers · W. F. Farnham · S. Lewey · N. A. Jephson · J. M. Haythorn · P. W. G. Gray
Their Eggs in the Inland Sea of Japan 25	The Epibionts of Sargassum muticum in British Waters 79
S. Kasahara · T. Onbé · M. Kamigaki Calanoid Copepod Eggs in Sea-Bottom Muds.  III. Effects of Temperature, Salinity and Other	B. A. Menge Brood or Broadcast? The Adaptive Significance of
Factors on the Hatching of Resting Eggs of Tortanus forcipatus	Different Reproductive Strategies in the Two Intertidal Sea Stars Leptasterias hexactis and Pisaster ochraceus 87
H. A. Donaldson Vertical Distribution and Feeding of Sergestid Shrimps (Decapoda: Natantia) Collected near	
Bermuda 31	,
Volume 31,	Number 2, 1975
N. Ogura	G. Sach
Further Studies on Decomposition of Dissolved Organic Matter in Coastal Seawater	Zur Fortpflanzung des Polychaeten Anaitides
G. A. Vargo · P. E. Hargraves · P. Johnson	
Scanning Electron Microscopy of Dialysis Tubes Incubated in Flowing Seawater	Structures of the Priapulid Tubiluchus corallicola
S. Shimura · Y. Fujita	from Bermuda 161
Phycoerythrin and Photosynthesis of the Pelagic Blue-Green Alga <i>Trichodesmium thiebautii</i> in	N. L. Leibson · O. T. Movchan Cambial Zones in Gills of Bivalvia 175
the Waters of Kuroshio, Japan 12	P. W. Frank
D. Jebram	Latitudinal Variation in the Life History Features
Dauerknospen ("Hibernacula") bei den Bryozoa Ctenostomata in mesohalinen und vollmarinen Gewässern. [Resting Buds ("Hibernacula") of	of the Black Turban Snail <i>Tegula funebralis</i> (Prosobranchia: Trochidae)
Bryozoa Ctenostomata in Mesohaline and	R. M. Avent
Marine Waters] 129	Evidence for Acclimation to Hydrostatic Pressure

O. Giere

Population Structure, Food Relations and Ecological Role of Marine Oligochaetes, with Special Reference to Meiobenthic Species

Evidence for Acclimation to Hydrostatic Pressure in *Uca pugilator* (Crustacea: Decapoda: Ocypodidae)

193

## Volume 31, Number 3, 1975

P. Nival · S. Nival · A. Thiriot

C. O. Wirsen · H. W. Jannash

P. A Cunningham M. R. Tripp Accumulation, Tissue Distribution and Elimination of <sup>203</sup>HgCl<sub>2</sub> and CH<sub>3</sub> <sup>203</sup>HgCl in the Tissues of the American Oyster Crassostrea virginica

Elevated Hydrostatic Pressures and Low Temperatures	201	productions phyto- et zooplanctoniques en Méditerranée Nord-Occidentale. V. Biomasse et	
F. Colijn · G. van Buurt	201	production zooplanctonique – relations phyto- zooplancton. [Influence of Winter Conditions on	
Influence of Light and Temperature on the		Phyto- and Zooplankton Production in the North-	
Photosynthetic Rate of Marine Benthic		western Mediterranean. V. Zooplankton Biomass	
Diatoms	209	and Production - Phytoplankton Relationships]	
Diatomo	200	24	9
S. R. Petrocelli · J. W. Anderson · A. R. Hanks		• *	
Controlled Food-Chain Transfer of Dieldrin		H. Okada · S. Honjo	
Residues from Phytoplankters to Clams	215	Distribution of Coccolithophores in Marginal	
		Seas along the Western Pacific Ocean and in	
B. P. Kremer		the Red Sea 27	1
<sup>14</sup> CO <sub>2</sub> -Fixation by the Endosymbiotic Alga			
Platymonas convolutae within the Turbellarian		R. S. Newton · A. Stefanon	
Convoluta roscoffensis	219	Application of Side-Scan Sonar in Marine Biology 28	37
C. R. Boyden · H. Watling · I. Thornton			
Effect of Zinc on the Settlement of the Oyster			
Crassostrea gigas	227		
		*	
D. R. Heinle D. A. Flemer			
Carbon Requirements of a Population of the			
Estuarine Copepod Eurytemora affinis	235		
		•	
14			
Volume 3	1. Nu	mber 4. 1975	
, , ,	,		
K. V. Honn · W. Chavin		G. D. Grice · V. R. Gibson	
Prototype Design for a Closed Marine System		Occurrence, Viability and Significance of Resting	
Employing Quarternary Water Processing	293	Eggs of the Calanoid Copepod Labidocera	
		aestiva	335
R. L. Fletcher			
The Life History of Rhodophysema georgii in		W. A. Muller	
Laboratory Culture	299	Competition for Food and Other Niche-Related	
W. M. Dunstan · L. P. Atkinson · J. Natoli		Studies of Three Species of Salt-Marsh	200
Stimulation and Inhibition of Phytoplankton Gr	outh	Foraminifera	339
by Low Molecular Weight Hydrocarbons	305	J. M. Davies	
by Low Molecular VVelgrit Flydrocarbons	300	Energy Flow through the Benthos in a Scottish	
P. A. Cunningham · M. R. Tripp		Sea Loch	353
Factors Affecting the Accumulation and Remo	val	Oca Loon	300
of Mercury from Tissues of the American Oysi		D. M. Dauer · J. L. Simon	
Crassostrea virginica	311	Lateral or Along-Shore Distribution of the	
,		Polychaetous Annelids of an Intertidal, Sandy	

Habitat

Indexed in Current Contents

321

363

